

In the claims:

For the convenience of the Examiner, all claims, including those not changed by the present Amendment, have been included. A marked-up copy of the claims is attached per Rule 37 CFR § 1.121(c)(1)(ii).

1. (Currently Amended) A ski binding release system comprising:
a track for receiving a ski binding member;
said ski binding member being a member of a forward release binding system
having a toe release mechanism, a heel release mechanism and a snow brake
that is thrust downward upon a release of the forward release binding
system;
a remote transmitter;
a receiver mountable on a ski with an actuator connected to the track;
wherein the remote transmitter activates the receiver which in turn activates the actuator to move the track, thereby moving the ski binding member;
wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski;
wherein the flat rigid member slides in the anchors;
wherein the flat rigid member is controlled by the actuator; and
wherein the actuator further comprises a gas chamber powering a ~~piston~~
connected to the track and a receiver to receive ~~the~~a remote signal and
release the actuator from a ski position to a release position.

2. (Currently Amended) An improvement to a forward release ski binding release system, said ski binding release system having a toe piece with a release mechanism and a heel piece with a release mechanism to hold a boot, and a snow brake that is thrust
downward upon a release of the forward release ski binding system, the improvement comprising:
a track connected to the heel piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal; wherein the actuator further comprises a compressed gas cylinder having a piston connected to the track; and wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the compressed gas cylinder, thereby allowing a spring to move the actuator from a ski position to a release position.

3. (Currently Amended) A ski binding release system comprising:
a toe and a heel piece; forming a forward release binding system having a toe release mechanism and a heel release mechanism and snow brake that is thrust downward upon a release of the forward binding system.

a mechanism having a gas actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal;
said mechanism having a housing which contains a connector to a track and having a gas chamber with a piston which releaseably biases the track against a binding member, and having a receiver to receive a remote signal to release a gas pressure from the gas chamber; and
said track suited to receive either the toe or the heel piece.

4. (Currently Amended) A ski binding release system comprising:
a toe and a heel piece designed to have a mounting distance there between to secure a ski boot;
said toe and heel pieces being parts of a forward release binding system;
an extension mechanism to release the ski boot by enlarging the mounting distance on demand from a remote signal;
said extension mechanism having a housing to contain a gas chamber with a piston, a connector to a track which is biased by the gas chamber and piston,

and a receiver which controls a release of a gas pressure from the gas chamber; and

wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski, wherein the flat rigid member slides in the anchors controlled by an actuator.

5. (Currently Amended) An improvement to a forward release ski binding release system, said forward release ski binding release system having a toe piece with a release mechanism and a heel piece with a release mechanism to hold a boot, the improvement comprising:

a track connected to the toe piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;

wherein the actuator further comprises a housing containing a gas loaded piston having a ski position with the gas compressed, and a release position with the gas released, said piston having a receiver to receive a remote signal and release the gas, thereby releasing the ski boot by causing the toe piece to move to a larger distance from the heel piece.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Previously Presented) The apparatus of claim 3 further comprising a transmitter contained in a ski pole to activate the receiver.

10. (Previously Presented) The apparatus of claim 9, wherein the transmitter further comprises a safety switch to prevent an accidental transmission.

11. (Currently Amended) The apparatus of claim 3 further comprising a mounting plate to house the toe piece and its release mechanism, the track, the heel piece and its release mechanism and the actuator, said mounting plate having a hole for mounting to a ski.

12. (Canceled)

13. (Canceled)

14. (Previously Presented) The improvement of claim 2, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.

15. (Previously Presented) The improvement of claim 2, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.

16. (Previously Presented) The improvement of claim 2 further comprising a CO₂ cartridge connected to the compressed gas cylinder to provide a source of compressed gas.

17. (Previously Presented) The improvement of claim 16 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Currently Amended) A ski binding release system comprising:
a toe and a heel piece;
said toe and heel pieces each being members of a forward release binding system having a toe release mechanism, a heel release mechanism and a snow brake that is thrust downward upon a release of the forward release of the forward release binding system;
a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and
said mechanism having a piston which is spring biased to maintain the mounting distance in a ski position and a gas source to bias the piston to a release position when a ski mounted receiver receives a remote signal.

27. (Previously Presented) The apparatus of claim 26 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.

28. (Currently Amended) A ski binding release system comprising:
a toe and a heel piece forming a forward release binding system having a toe release mechanism, a heel release mechanism and a snow brake that is thrust downward upon a release of the forward release binding system;

a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and said mechanism having a piston which is gas biased to maintain the mounting distance in a ski position and spring biased to a release position when a ski mounted receiver receives a remote signal.

29. (Previously Presented) The apparatus of claim 28 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.
